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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* \* \* \* \* \* \* Welcome to STN International \* \* \* \* \* \* \* \* \* \* \*

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	DEC 01	ChemPort single article sales feature unavailable
NEWS 3	JAN 06	The retention policy for unread STNmail messages will change in 2009 for STN-Columbus and STN-Tokyo
NEWS 4	JAN 07	WPIDS, WPINDEX, and WPIX enhanced Japanese Patent Classification Data
NEWS 5	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAAB, ELCOM, and SOLIDSTATE
NEWS 6	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS 7	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS 8	FEB 10	COMPENDEX reloaded and enhanced
NEWS 9	FEB 11	WTEXTILES reloaded and enhanced
NEWS 10	FEB 19	New patent-examiner citations in 300,000 CA/CAPLUS patent records provide insights into related prior art
NEWS 11	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS 12	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS 13	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS 14	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS 15	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS 16	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS 17	MAR 06	INPADOCDB and INPAFAMDB enhanced with new display formats
NEWS 18	MAR 11	EPFULL backfile enhanced with additional full-text applications and grants
NEWS 19	MAR 11	ESBIOBASE reloaded and enhanced
NEWS 20	MAR 20	CAS databases on STN enhanced with new super role for nanomaterial substances
NEWS 21	MAR 23	CA/CAPLUS enhanced with more than 250,000 patent equivalents from China
NEWS 22	MAR 30	IMSPATENTS reloaded and enhanced
NEWS 23	APR 03	CAS coverage of exemplified prophetic substances enhanced
NEWS 24	APR 07	STN is raising the limits on saved answers

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 08:09:03 ON 14 APR 2009

FILE 'REGISTRY' ENTERED AT 08:09:14 ON 14 APR 2009  
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 APR 2009 HIGHEST RN 1134263-89-0  
DICTIONARY FILE UPDATES: 13 APR 2009 HIGHEST RN 1134263-89-0

Non-GMO Information Use Policies, section 10(d), USETERMS, for detailed

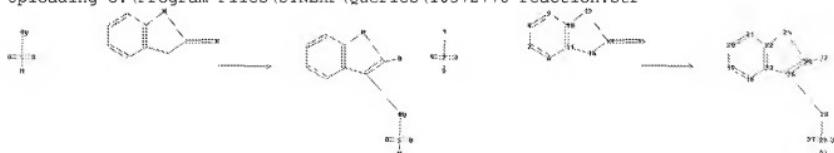
TSGA INFORMATION NOW CURRENT THROUGH January 8, 2000

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stn/gen/stndoc/properties.html>

=> Uploading C:\Program Files\STNEXP\Queries\1052278\_reaction.str



chain nodes :  
1 2 3 4 15 27 28 29 30 31  
ring nodes :  
5 6 7 8 9 10 11 12 13 14 18 19 20 21 22 23 24 25 26 32  
chain bonds :  
1-2 2-3 2-4 2-5 13-15 25-27 26-28 28-29 29-30 29-31 29-32  
ring bonds :  
6-7 6-11 7-8 8-9 9-10 10-11 10-12 11-14 12-13 13-14 18-19 18-23 19-20  
20-21 21-22 22-23 22-24 23-26 24-25 25-26  
exact/norm bonds :  
1-2 2-3 2-4 2-5 10-12 12-13 13-15 22-24 24-25 25-27 26-28 28-29 29-30  
29-31 29-32  
exact bonds :  
11-14 13-14 23-26 25-26  
normalized bonds :  
6-7 6-11 7-8 8-9 9-10 10-11 18-19 18-23 19-20 20-21 21-22 22-23  
isolated ring systems :  
containing 6 : 18 :

Match level :  
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:Atom  
24:Atom 25:Atom 26:Atom 27:CLASS 28:Atom 29:CLASS 30:CLASS 31:CLASS 32:Atom  
Generic attributes :  
1:  
Saturation : Unsaturated  
Number of Carbon Atoms : less than 7  
Type of Ring System : Monocyclic  
28:  
Saturation : Unsaturated  
Number of Carbon Atoms : less than 7  
Type of Ring System : Monocyclic  
  
fragments assigned product role:  
containing 18  
fragments assigned reactant/reagent role:  
containing 1  
containing 6

#### L1 STRUCTURE UPLOADED

=> d L1  
L1 HAS NO ANSWERS  
L1 STR  
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Structure attributes must be viewed using STN Express query preparation.

=> file casreact  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
0.48	0.70

FILE 'CASREACT' ENTERED AT 08:10:06 ON 14 APR 2009  
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FILE CONTENT:1840 - 11 Apr 2009 VOL 150 ISS 16

New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
*****
*          *
*      CASREACT now has more than 16.5 million reactions      *
*          *
*****
```

CASREACT contains reactions from CAS and from: ZIC/VINITI database (1974-1999) provided by InfoChem; INPI data prior to 1986; Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich; organic reactions, portions copyright 1996-2006 John Wiley & Sons, Ltd., John Wiley and Sons, Inc., Organic Reactions Inc., and Organic Syntheses Inc. Reproduced under license. All Rights Reserved.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s L1 SSS full
FULL SEARCH INITIATED 08:10:10 FILE 'CASREACT'
SCREENING COMPLETE -      1532 REACTIONS TO VERIFY FROM      110 DOCUMENTS
```

```
100.0% DONE      1532 VERIFIED      69 HIT RXNS      1 DOCS
SEARCH TIME: 00.00.03
```

```
L2      1 SEA SSS FUL L1 (      69 REACTIONS)
```

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=> d ibib abs fhit l-
YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
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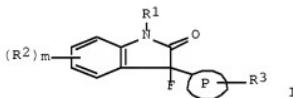
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L2 ANSWER 1 OF 1 CASREACT COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:      142:336240 CASREACT Full-text
TITLE:                  Preparation of heterocyclic-substituted indoles as
                        inhibitors of GSK3β
INVENTOR(S):            Berg, Stefan; Hellberg, Sven
PATENT ASSIGNEE(S):     Astrazeneca Ab, Swed.
SOURCE:                 PCT Int. Appl., 120 pp.
CODEN:                 PIXXD2
DOCUMENT TYPE:          Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  2
PATENT INFORMATION:
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005027823	A2	20050331	WO 2004-SE1363	20040921
WO 2005027823	A3	20050602		

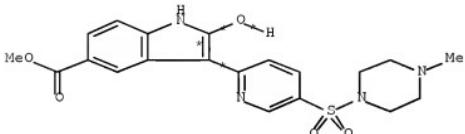
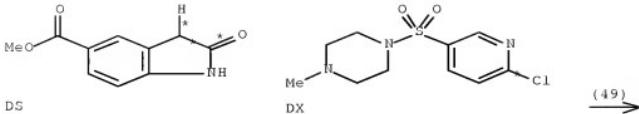
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,  
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,  
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,  
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
 SI, SK, TR, BF, BJ, CF, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
 SN, TD, TG

AU 2004273771	A1	20050331	AU 2004-273771	20040921
AU 2004273771	B2	20081106		
CA 2538381	A1	20050331	CA 2004-2538381	20040921
EP 1667990	A2	20060614	EP 2004-775465	20040921
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BR 2004014632	A	20061107	BR 2004-14632	20040921
CN 1886397	A	20061227	CN 2004-80034700	20040921
JP 2007506734	T	20070322	JP 2006-527944	20040921
IN 2006DN01198	A	20070803	IN 2006-DN1198	20060307
US 20080275041	A1	20081106	US 2006-572778	20060321
MX 2006003195	A	20060623	MX 2006-3195	20060322
PRIORITY APPLN. INFO.:			SE 2003-2546	20030924
			AU 2003-216026	20030328
			WO 2004-SE1363	20040921

OTHER SOURCE(S) : MARPAT 142:336240  
 GI



AB Title compds. I [P - 5-6-membered heteroarom. ring; R1 = H; R2 = alkyl, CN, halo, etc.; R3 = alkyl, CN, NO<sub>2</sub>, carboxy, etc.; m, n = 0-4] and derivs. are prepared For instance, 2-Hydroxy-3-[5-[(4-methylpiperazin-1-yl)carbonyl]pyridin-2-yl]-1H-indole-6-carbonitrile is prepared by the reaction of 2-oxoindoline-6-carbonitrile and 1-[(6-chloro-1-oxidopyridin-3-yl)carbonyl]-4-methylpiperazine (preparation given). Ki of selected compds. of the invention was 20  $\mu$ M for GSK3 $\beta$ . I are useful for the treatment of, e.g., Alzheimer's Disease.



● HCl

DY  
YIELD 59%

RX(49) RCT DS 199328-10-4, DX 64614-53-5  
 RGT DQ 7646-69-7 NaH  
 PRO DY 648473-46-0  
 SOL 68-12-2 DMF  
 CON SUBSTAGE(1) 20 minutes, room temperature  
 SUBSTAGE(2) 1.5 hours, 110 deg C  
 SUBSTAGE(3) 110 deg C -> room temperature  
 REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log off  
 ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF  
 LOGOFF? (Y)/N/HOLD:y  
 STN INTERNATIONAL LOGOFF AT 08:10:58 ON 14 APR 2009